

*Key Question:*

*How do we  
manage the risk?*

*Are we willing to fail?*

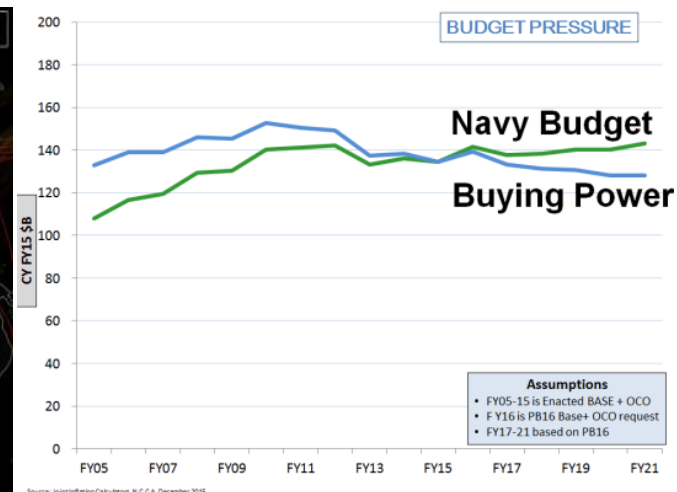
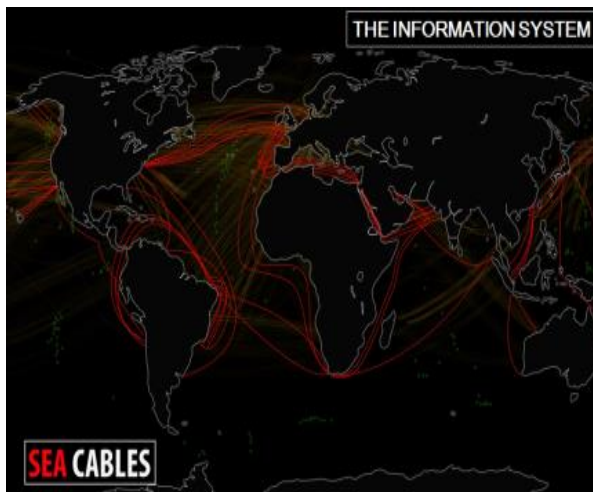
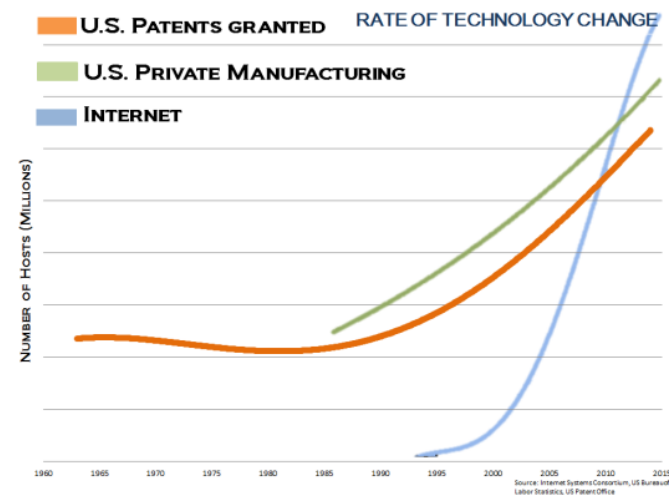
**RADM Mike Manazir, N9  
DCNO for Warfare Systems**

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# Four Forces Driving Our Navy

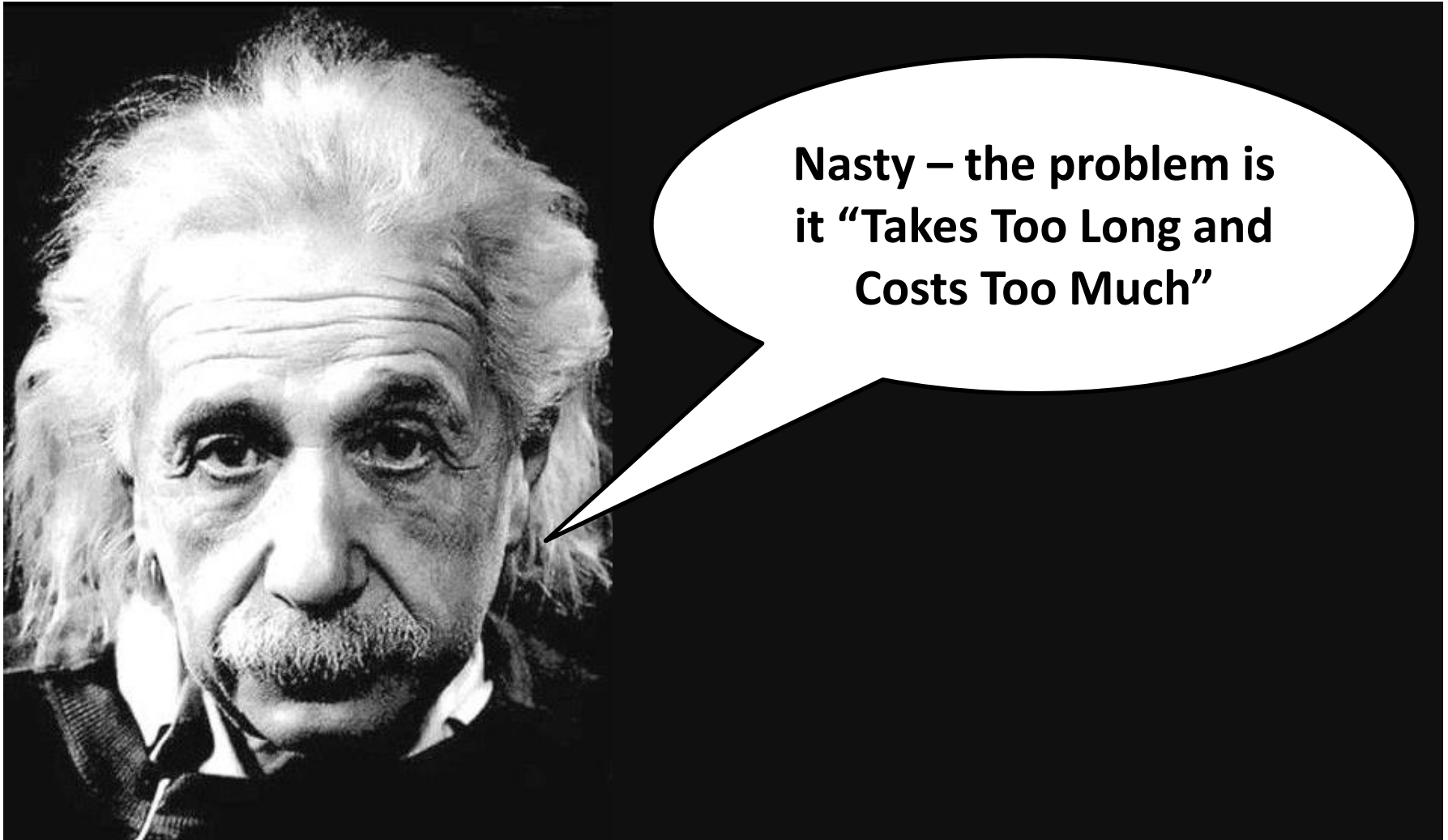
- ❑ Maritime System
- ❑ Information System
- ❑ Rate of Technology Change
- ❑ Budget







# Define The Problem





# Integrated and Interoperable

- Future Fleet Architecture / Design

- Force Structure Assessment (FSA)
- Frigate (FF) Design
- Future Air Wing (CVW)
- Future Surface Combatant (FSC)
- Future Aircraft Carrier (CV / CVN)
- Fleet Architecture Studies

- Partnerships

- Industry
- Academia
- Warfare Centers and Laboratories

- Capability

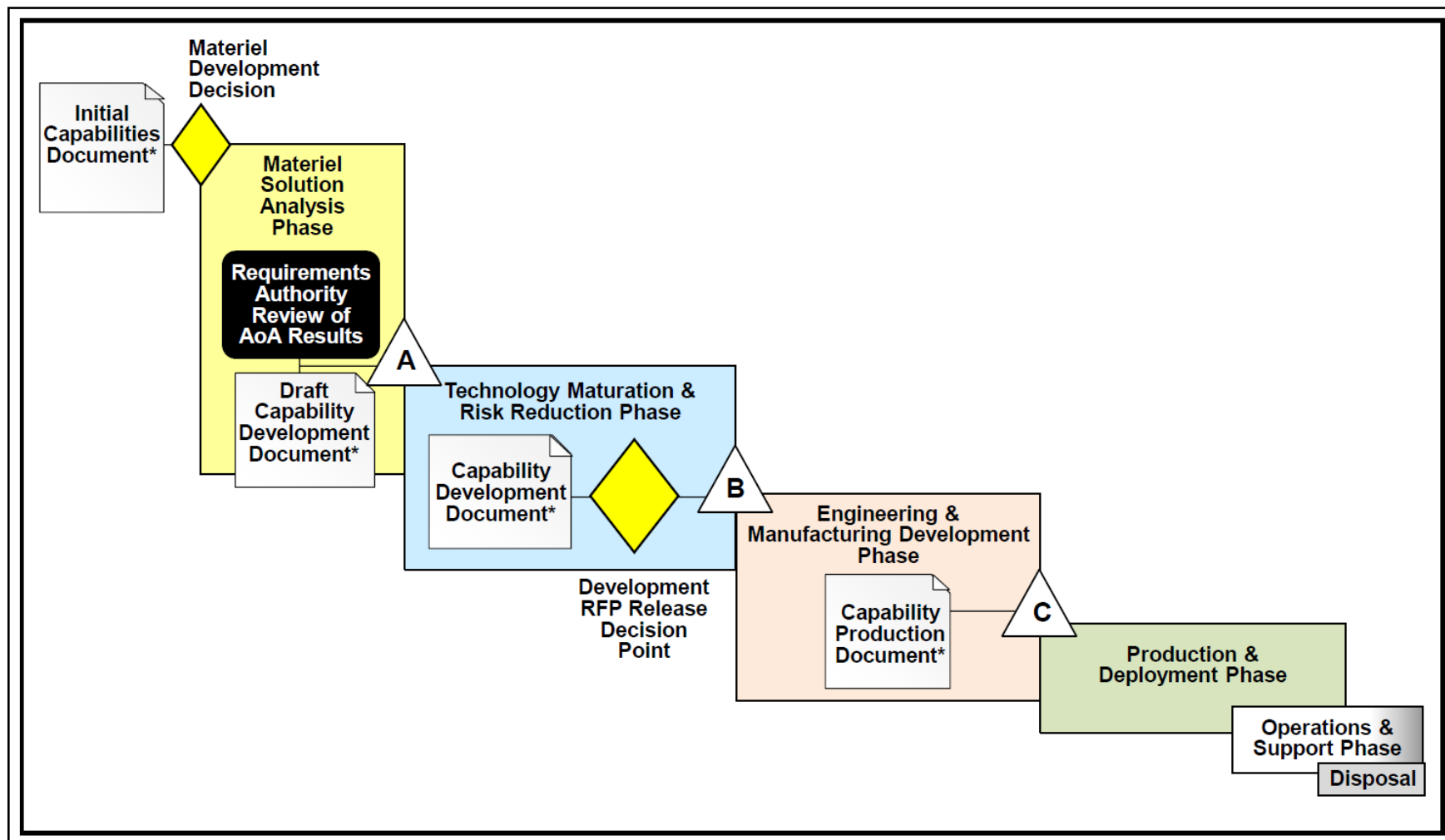
- Directed Energy / Hypersonics
- Positioning, Navigation & Timing (PNT)
- Cognitive EW
- AI leading to autonomy
- Man-Machine Teams



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# Opportunity



# Accelerated Acquisition Overview

A yellow autonomous underwater vehicle (AUV) is shown lying on a grey floor. The AUV has a long, cylindrical body with a conical nose and a tail section. It features several small, dark, circular ports along its side and a larger, rectangular hatch on the top. The background shows a brown curtain and a concrete floor.

## **Maritime Accelerated Capability Office (MACO)**

- Schedule is a priority
- Known requirements
- Appropriate materiel solution exists

## **Rapid Prototyping, Experimentation and Demonstration (RPED)**

- Suitable material solution does not currently exist
- Use of prototyping to demonstrate solutions
- Inform concepts of operations
- Inform requirements development
- Inform acquisition and resource planning

**Schedule is a priority – Cost & Performance are trade space**



# Imperatives

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- Empowered Teams
- Collaboration
- Act to the limits of authorities
- Innovate, Experiment, Demonstrate
  - Accelerate The Innovation Loop
  - **Be Willing to Fail**
    - Know and manage the risk – improve rate of return





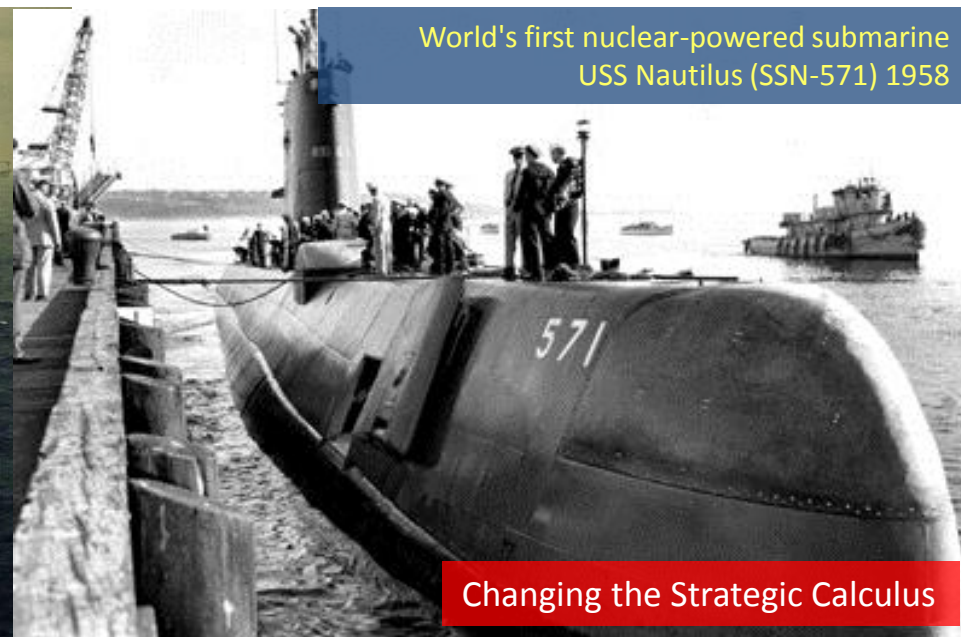
# Innovate, Experiment, Demonstrate

Carrier Aviation, 1942



Strategic and Technological Necessity

World's first nuclear-powered submarine  
USS Nautilus (SSN-571) 1958



Changing the Strategic Calculus

AEGIS Weapon System, 1983



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Defend the Force

Integrated Battleforce 2030



More Lethality...  
... more places

Peer Competition & High End Conflict





# Discussion



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